

Office Action Summary

Application No.

08/736,143

Applicant(s)

Apple et al

Examiner

Anthony Blackman

Art Unit

2872

— The MAILING DATE of this communication appears on the cover sheet with the correspondence address —

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE three MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Dec 10, 2001
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-38 is/are pending in the application.
- 4a) Of the above, claim(s) _____ is/are withdrawn from consideration
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-38 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) ☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- a) ☒ All b) ☐ Some* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- *See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- 15) ☐ Notice of References Cited (PTO-892)
- 16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 17) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s). _____
- 18) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 19) ☐ Notice of Informal Patent Application (PTO-152)
- 20) ☐ Other:

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DETAILED ACTION

1. Due to the new grounds of rejection, the final action is withdrawn and a new nonfinal action is being sent. Since this application is eligible for the transitional procedure of 37 CFR 1.129(a), and the fee set forth in 37 CFR 1.17(r) has been timely paid, the finality of the previous Office action is hereby withdrawn pursuant to 37 CFR 1.129(a). Applicant's submission after final filed on 12/10/2001 has been entered.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claim 1-3, 6-13, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over HIGGINS, US Patent No. 5,270,922 in view of Lauer et al, US Patent No. 5,523,769.

Consider claim 1. HIGGINS discloses "[a] data processing and communication system [that] distributes and displays financial market ticker, quotation, news and ancilliary information..."

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(please see figure 1a, elements; 28, 30 and 35, figure 2, abstract, lines 1-3, column 1, lines 60-63); comprising the means of an input port to receive a feed containing identifiers and corresponding values of financial instruments (figure 1a, elements, 28, 30(I) to 30(n), and 35, column 2, lines 42-57); the means of a filter to extract from the feed identifiers and corresponding values of the financial instruments (figures 3-4, abstract, lines 8-12, column 1, lines 42-45); the means of an input processor comprising a memory to store the extracted financial instrument identifiers and corresponding values of the financial instruments (column 3, lines 14-18, column 3, line 60-65); the means of an input processor comprising a memory to store the extracted financial instrument identifiers and corresponding values (column 3, lines 14-18, column 3, line 60-65); the means of a database that stores graphic symbols that represent entities whose financial instruments are identified by the instrument identifiers in the feed and that can be accessed by financial instrument identifiers to provide graphic symbols corresponding to the financial instrument identifiers in the feed (figure 3, abstract, lines 8-12, column 6, line 16 to column 7, line 28, and column 9, lines 25-29); a display controller for forming display signals with the graphic symbols and values corresponding to the financial instruments in the feed (column 2, lines 15-18, and column 4, lines 30-49); however, does not expressly teach a video wall including a plurality of individual monitors arranged into a composite display, and with the display controller receiving the display signals to render the graphic symbols and values corresponding to the financial instruments in the feed on the individual monitors. Lauer et al disclose the above limitation (figures 1a, 1b, 3-6, column 3, lines

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57-67, column 4, lines 1-67, and column 5, lines 1-22). It would have been obvious to one skilled in the art at the time of the invention to utilize the seamless wall display means of Lauer et al with the data processing and communication system that distributes and displays the financial market ticker (abstract, lines 1-2) system for HIGGINS because this modification will improve the image display capability of financial and securities data.

4. Consider claim 2. HIGGINS discloses the system of claim 1 wherein the feed is a stock ticker feed and the financial instruments are stocks traded over an exchange (figure 2, abstract, lines 1-7).

5. Consider claim 3. HIGGINS discloses the system of claim 2 wherein the values include the current trading price for the stocks (figure 2).

6. Consider claims 6-8. HIGGINS discloses the system of claim 1, wherein the display controller forms display signals with the graphic symbols and values corresponding to the financial instruments in the feed (column 2, lines 15-18, and column 4, lines 30-49), however, does not disclose the means of a plurality of display processors coupled to the input processor and each provided from a respective one of the plurality of display signals, LAUER et al disclose the means of a plurality of display processors coupled to the input processor and each provided from a respective one of the plurality of display signals (column 3, line 57 to column 5, line 22).

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11. Consider claim 15. HIGGINS disclose a system for displaying financial information comprising: a first input port for receiving a first time feed containing identifiers and corresponding values of financial instruments (figure 1a, elements 28, 30, 30(I) to 30(n), and 35, column 2, lines 42-57); the means of a second input port for receiving a second feed containing financial data (figure 1a, elements 28, 30, 30(I) to 30(n), and 35, column 2, lines 42-57); the means of a filter to extract from the first feed the identifiers and corresponding values of the financial instruments and from the second feed the financial data (column 3, lines 14-18, column 3, lines 60-65); a memory to store the extracted financial instrument identifiers, corresponding values, and financial data (column 3, lines 14-18, column 3, lines 60-65); a data structure associating the extracted financial instrument identifiers with corresponding graphic symbols being publicly acknowledged identifiers of entities whose financial instruments are identified by the instrument identifiers in the feed (figure 3, abstract, lines 8-12, column 6, line 16 to column 7, line 28, and column 9, lines 25-29); the means of a video processor to produce a first display signal with the graphic symbols and values corresponding to the financial instruments in the feed and a second display signal with the financial data column 2, lines 15-18, and column 4, lines 30-49); however, HIGGINS does not expressly teach a video wall including a plurality of individual monitors arranged into a composite display to receive the firsthand second display signals and display the financial data and the graphic symbols and values corresponding to the financial instruments. LAUER et al teach the means of a video wall including

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a plurality of individual monitors arranged into a composite display to receive the firsthand second display signals and display the financial data and the graphic symbols and values corresponding to the financial instruments (column 3, line 57 to column 5, line 22). It would have been obvious to one skilled in the art at the time of the invention to utilize the seamless wall display means of Lauer et al with the data processing and communication system that distributes and displays the financial market ticker (abstract, lines 1-2) system for HIGGINS because this modification will improve the image display capability of financial and securities data.

12. Consider claim 16. HIGGINS discloses the means of a method for dynamically displaying graphic symbols and value information for financial instruments on a display, the method comprising: receiving a feed containing identifiers and corresponding values of financial instruments (figure 1a, elements 28, 30(I) to 30(n), and 35, column 2, lines 42-57); the means of extracting from the feed the identifiers and corresponding values of the financial instruments (figures 3-4, abstract, lines 8-12, column 1, lines 40-45); the means of storing the extracted financial instrument identifiers and corresponding values (column 1, lines 40-45, column 3, lines 14-18, 60-65); the means of using the extracted financial instrument identifiers to find graphic symbols and values corresponding to the financial instruments in the feed (column 1, lines 40-45, column 3, lines 14-18, 60-65), however, HIGGINS does not disclose the means of a wall display and associated processing. Lauer et al disclose the means video wall including a plurality of individual monitors arranged into a larger display (column 8, line 48 to column 6, line 17). It would have been obvious to one skilled in the

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art at the time of the invention to utilize the seamless wall display means of Lauer et al with the data processing and communication system that distributes and displays the financial market ticker (abstract, lines 1-2) system for HIGGINS because this modification will improve the image display capability of financial and securities data.

Claims 4-5, 17-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over HIGGINS, US Patent No. 5,270,922 in view of Lauer et al, US Patent No. 5,523,769 and further in view of RAISON et al, US Patent No. 5,761,689.

13. Consider claim 4. The modified HIGGINS teaches utilization of stock symbols with financial and securities data (figure 3, element 201), however, does not disclose the use of a company logo.

why?
w/p. RAISON et al teach the replacement of a predefined string of characters with other objects, such as
bitmap (column 1, lines 54-56), further, "...replacement can also comprise a graphic representation
or virtually any object that can be displayed" (column 2, lines 25-28), and still further, RAISON et
al teach that the autocorrect function is not limited to replacing text characters with plain or formatted text. A user can also apply the function to replace predefined text or a character string with graphic objects such as pictures or logos (column 9, lines 51-54). It would have been obvious to one skilled in the art at the time of the invention to utilize the means of the text/character string replaced by a bitmapped picture or logo of RAISON et al with the modified HIGGINS with the data

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processing and communication system that distributes and displays the financial market ticker (abstract, lines 1-2) system for HIGGINS because this modification allows for improved user visibility and operation of financial, security and market ticker information because the logos provide instant recognition for a company/corporation.

14. Consider claim 5. As to claim 4, HIGGINS disclose the moving financial and market ticker display (figure 2, column 4, lines 34-36, column 5, lines 1-5, column 9, lines 18-22, including company symbols, however, does not disclose logos. RAISON et al discloses the means of corporate logos (column 9, lines 51-54).

15. Consider claims 17-20. HIGGINS discloses the means of a system for displaying stock ticker information comprising: a display (figure 1b, element 107); and an electronic device that produces the means of a signal that when fed to the display scrolls market data across the display (abstract, lines 1-2, column 5, lines 6-7), the means of said market data including real-time textual data associated with financial instruments of entities identified by instrument identifiers in a feed received by the system (column 5, lines 16-47), however, does not disclose company logo juxtaposed with financial information. RAISON et al teach the replacement of a predefined string of characters with other objects, such as bitmap (column 1, lines 54-56), further, "...replacement can also comprise a graphic representation or *virtually* any object that can be displayed" (column 2, lines 25-28), and still further, RAISON et al teach that the autocorrect function is not limited to replacing text characters with plain or formatted text. A user can also apply the function to replace predefined text

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or a character string with graphic objects such as pictures or logos (column 9, lines 51-54). Therefore, it would have been obvious to one skilled in the art at the time of the invention to utilize the means of the text/character string replaced by a bitmapped picture or logo of RAISON et al with the data processing and communication system that distributes and displays the financial market ticker (abstract, lines 1-2) system for HIGGINS because this modification allows for improved user visibility and operation of financial, security, and market ticker information because the logos provide instant recognition for a company/corporation.

17. Consider claim 21. The modified HIGGINS discloses the system of claim 18 wherein the source containing financial information is a database of financial data (figures 3-4, abstract, lines 8-12, column 1, lines 41-45).

18. Consider claim 22. The modified HIGGINS discloses the system of claim 18 wherein the real-time textual data scrolled on the display are updated according to market conditions (column 5, lines 6-36).

19. Consider claim 23. The modified HIGGINS discloses the system of claim 22 further comprising the means of a filter coupled to a source containing financial data (figures 3-4, abstract, lines 8-12, column 1, lines 41-45), said filter extracting the real-time textual data and placing the real-time textual data in a database (figures 3-4, abstract, lines 8-12, column 1, lines 41-45).

23. Consider claim 24. The modified HIGGINS discloses the means of a system of claim 17 further comprising a correlator that correlates a bitmap of a company symbol with financial data

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contained in a database (figures 3-4, abstract, lines 8-12, column 1, lines 41-45), even though the means of a stock symbol is used comprising financial information including real-time data associated with financial instruments of entities identified by instrument identifiers in a feed received by the system contained in a database, HIGGINS does not expressly state correlation of a correlator that correlates a bitmap of a company logo. However, RAISON et al disclose the means of a (company) logo, wherein, the replacement of a predefined string of characters with other objects, such as bitmap (column 1, lines 54-56), further, "...replacement can also comprise a graphic representation or *virtually* any object that can be displayed" (column 2, lines 25-28), and still further, RAISON et al teach that the autocorrect function is not limited to replacing text characters with plain or formatted text. A user can also apply the function to replace predefined text or a character string with graphic objects such as pictures or logos (column 9, lines 51-54). Therefore, it would have been obvious to one skilled in the art at the time of the invention to utilize the means of the text/character string replaced by a bitmapped picture or logo of RAISON et al with the data processing and communication system that distributes and displays the financial market ticker (abstract, lines 1-2) system for HIGGINS because this modification allows for improved user visibility and operation of financial, security, and market ticker information because the logos provide instant recognition for a company/corporation.

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24. Consider claim 25. The modified HIGGINS discloses the system of claim 24 wherein the real-time textual data scrolled on the display are updated according to market conditions (column 5, lines 6-47).

25. Consider claim 26. The modified HIGGINS disclose the system of claim 24 further comprising the means of a filter coupled to a source containing financial data, said filter extracting the financial data and placing the financial data in a database (abstract, lines 8-12, column 1, lines 33-45, and column 11, line 55 to column 12, line 21).

26. Consider claim 27. The modified HIGGINS discloses a method for displaying stock ticker information comprises:

displaying market data across an electronic monitor (figure 1b, element 107, abstract, lines 1-4),
Consider claims 27. HIGGINS discloses the means of a system for displaying stock ticker information comprising: a display (figure 1b, element 107); displaying market data across an electronic monitor (abstract, lines 1-2, column 5, lines 6-7), the means of said market data comprising a company symbol and stock ticker real-time data associated with the company symbol including real-time textual data associated with financial instruments of entities identified by instrument identifiers in a feed received by the system (abstract, lines 1-2, column 1, lines 26-45, column 5, lines 16-47), however, does not disclose company logo juxtaposed with financial information. RAISON et al teach the replacement of a predefined string of characters with other objects, such as bitmap (column 1, lines 54-56), further, "...replacement can also comprise a graphic representation

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or *virtually* any object that can be displayed" (column 2, lines 25-28), and still further, RAISON et al teach that the autocorrect function is not limited to replacing text characters with plain or formatted text. A user can also apply the function to replace predefined text or a character string with graphic objects such as pictures or logos (column 9, lines 51-54). Therefore, it would have been obvious to one skilled in the art at the time of the invention to utilize the means of the text/character string replaced by a bitmapped picture or logo of RAISON et al with the data processing and communication system that distributes and displays the financial market ticker (abstract, lines 1-2) system for HIGGINS because this modification allows for improved user visibility and operation of financial, security, and market ticker information because the logos provide instant recognition for a company/corporation. said market data comprising a company logo and stock ticker real-time textual data associated with the company logo, the real-time textual data juxtaposed with the company logo.

27. Consider claim 28. The modified HIGGINS discloses the method of claim 27 wherein displaying associates a data source containing financial information (abstract, lines 1-2) and even though the modified HIGGINS utilizes a stock/company symbol associated with the financial data source, does not expressly state the means of a data source that contains bit map data corresponding to the company logo. However, RAISON et al disclose the above limitation, wherein, the autocorrect function is not limited to replacing text characters with plain or formatted text. A user can also apply the function to replace predefined text or a character string with graphic objects such

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as pictures or logos (column 9, lines 51-54). Therefore, it would have been obvious to one skilled in the art at the time of the invention to utilize the means of the text/character string replaced by a bitmapped picture or logo of RAISON et al with the data processing and communication system that distributes and displays the financial market ticker (abstract, lines 1-2) system for HIGGINS because this modification allows for improved user visibility and operation of financial, security, and market ticker information because the logos provide instant recognition for a company/corporation. said market data comprising a company logo and stock ticker real-time textual data associated with the company logo, the real-time textual data juxtaposed with the company logo.

28. Consider claim 29. The modified HIGGINS discloses the method of claim 28, however, does not disclose financial information including company identifiers are used to access corresponding to the company logos. However, RAISON et al disclose the above limitation, wherein, the autocorrect function is not limited to replacing text characters with plain or formatted text. A user can also apply the function to replace predefined text or a character string with graphic objects such as pictures or logos (column 9, lines 51-54). Therefore, it would have been obvious to one skilled in the art at the time of the invention to utilize the means of the text/character string replaced by a bitmapped picture or logo of RAISON et al with the data processing and communication system that distributes and displays the financial market ticker (abstract, lines 1-2) system for HIGGINS because this modification allows for improved user visibility and operation of financial, security,

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and market ticker information because the logos provide instant recognition for a company/corporation. said market data comprising a company logo and stock ticker real-time textual data associated with the company logo, the real-time textual data juxtaposed with the company logo.

29. Consider claim 30. The modified HIGGINS discloses the method of claim 27 wherein displaying market data occurs with market conditions (figures 3-4, abstract, lines 1-2, column 1, lines 9-11).

30. Consider claim 31. The modified HIGGINS discloses the method of claim 27 further comprising filtering the source containing financial data (figures 3-4, abstract, lines 1-12, column 1, lines 41-45, and extracting the data to place the data in a database (figures 3-4).

31. Consider claim 37. The modified HIGGINS discloses the system of claim 17 wherein the market data corresponds to trades in financial instruments (abstract, lines 1-12) and even though stock symbols are associated with financial information corresponding to a market price for the financial instrument, the modified HIGGINS does not disclose and the company logo associated with financial information corresponding to a market price for the financial instrument. However, RAISON et al disclose

32. Consider claim 38. The modified HIGGINS discloses the method of claim 27 wherein the stock information comprises trades of financial instruments (abstract, lines 1-12, column 3, line 24-36).

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Claim Rejections - 35 USC § 102

33. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

34. Claims 32-36 are rejected under 35 U.S.C. 102(b) as being anticipated by HIGGINS, US Patent No. 5,270,922.

35. Consider claim 32. HIGGINS discloses a method for displaying stock ticker information comprises: extracting from a data feed having values of financial instruments, instrument identifiers and the values of the financial instruments (abstract, lines 1-12, column 1, lines 33-45); accessing graphic symbols in accordance with the extracted instrument identifiers (figures 3-4, abstract, lines 1-12, column 1, lines 41-54; associating the graphic symbols with the corresponding values of the financial instruments to produce a financial instrument ticker (abstract, lines 1-12; and displaying the financial instrument ticker, as a moving financial instrument ticker of graphic symbols juxtaposed with corresponding by using the identifiers to associate the graphic symbols with the financial data (column 5, lines 6-36).

36. Consider claim 33. HIGGINS discloses the method of claim 32 wherein the data feed of values includes identifiers that correspond to the financial instruments (column 5, lines 6-36, and

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wherein accessing comprises: accessing the graphic symbols by using the identifiers to associate the graphic symbols with the financial data (column 5, lines 6-36).

37. Consider claim 35. HIGGINS discloses the method of claim 32 further comprising updating data on the financial instrument ticker in accordance with current market conditions (Column 5, lines 6-47).

38. Consider claim 36 A method for dynamically displaying graphic symbols and value information for financial instruments, the method comprising: receiving a feed containing identifiers and corresponding values of the financial instruments; extracting from the feed the identifiers and corresponding values of financial instruments; extracting from the feed the identifiers and corresponding values of the financial instruments; retrieving graphic symbols associated with the extracted identifiers; forming a display signal including the retrieved graphic symbols and values corresponding to the financial instruments; and displaying on a monitor the graphic symbols juxtaposed with values corresponding to the financial instruments.

Claim Rejections - 35 USC § 103

39. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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40. Claim 34 is rejected under 35 U.S.C. 103(a) as being unpatentable over HIGGINS, US Patent No. 5,270,922 in view of RAISON et al, US Patent No. 5,761,689.

Consider claim 34. The modified HIGGINS discloses the method of claim 32 wherein displaying associates a data source containing financial information (abstract, lines 1-2) and even though the modified HIGGINS utilizes a stock/company symbol associated with the financial data source, does not expressly state the means of a data source that contains bit map data corresponding to the company logo. However, RAISON et al disclose the above limitation, wherein, the autocorrect function is not limited to replacing text characters with plain or formatted text. A user can also apply the function to replace predefined text or a character string with graphic objects such as pictures or logos (column 9, lines 51-54). Therefore, it would have been obvious to one skilled in the art at the time of the invention to utilize the means of the text/character string replaced by a bitmapped picture or logo of RAISON et al with the data processing and communication system that distributes and displays the financial market ticker (abstract, lines 1-2) system for HIGGINS because this modification allows for improved user visibility and operation of financial, security, and market ticker information because the logos provide instant recognition for a company/corporation. said market data comprising a company logo and stock ticker real-time textual data associated with the company logo, the real-time textual data juxtaposed with the company logo. HIGGINS discloses the method of claim 32 further, including processing financial information in a database (abstract, lines

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1-12), comprising: correlating a bitmap of a company logo with financial information contained in a database.

41. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over HIGGINS, US Patent No. 5,270,922 in view of RAISON et al, US Patent No. 5,761,689 and further in view of Lauer et al, US Patent No. 5,523,769 and still further in view of RISBERG et al, US Patent No. 5,339,392.

42.. Consider claim 14. The modified HIGGINS meets limitations of claim 1, however does not disclose a means of voice designation. However, RISBERG et al disclose the means of voice designation (abstract, lines 11-15, column 2, lines 15-25). It would have been obvious to one skilled in the art to utilize the alarm and voice designation means of RISBERG et al with the modified data processing and communication system that distributes and displays the financial market ticker (abstract, lines 1-2) system for HIGGINS because this modification allows for increased data input options by users other than touch screen or keyboard (column 2, lines 22-24).

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Conclusion

42. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony Blackman whose telephone number is (703) 305-0833. The examiner can normally be reached on Monday through Thursday from 8 a.m. to 4 p.m. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Razavi, can be reached on (703) 305-4713.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 872-9314, (for formal communications intended for entry) Or:

(703) 746-5731 (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park 11, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

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Anthony J. Blackman

Patent Examiner

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Jeffery A. Brier
JEFFERY BRIER
PRIMARY EXAMINER